

FIG.1 FIG.3 FIG.8

10 LED DRIVING DEVICE

11 R APPLIED VOLTAGE STORAGE REGISTER

12 G APPLIED VOLTAGE STORAGE REGISTER

5 13 B APPLIED VOLTAGE STORAGE REGISTER

15 REGISTER SELECTING CIRCUIT

17 DA CONVERTING CIRCUIT

18 VOLTAGE VARYING CIRCUIT

19 POWER SUPPLY VOLTAGE GENERATING CIRCUIT

10 21 R DUTY RATIO STORAGE REGISTER

22 G DUTY RATIO STORAGE REGISTER

23 B DUTY RATIO STORAGE REGISTER

24 25 26 PWM WAVEFORM FORMING CIRCUIT

15 FIG.2

MINIMUM VALUE	STANDARD VALUE	MAXIMUM VALUE
RED LED	GREEN LED	BLUE LED
UNIT		

20 FIG.3

30 DRIVING VOLTAGE SETTING DEVICE

31 LUMINANCE/CHROMATICITY METER

32 MICROCOMPUTER

33 APPLIED VOLTAGE SETTING SECTION

25 34 DUTY RATIO SETTING SECTION

40 LCD PANEL

FIG.4

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ST10  START
ST11  SET ON DUTY RATIOS  R: MAXIMUM
ST12  SET THE TARGET LUMINANCE
5  ST13  APPLY VOLTAGE Vmin
ST14  MEASURED LUMINANCE>TARGET LUMINANCE ?
ST16  STORE THE APPLIED VOLTAGE VALUE
ST17  MEASURED LUMINANCE=TARGET LUMINANCE ?
ST19  STORE THE ON DUTY RATIOS
10  ST20  END

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FIG.5

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ST30  START
ST31  LIGHT AN LED OF EACH COLOR WITH STORED APPLIED
15  VOLTAGE AND DUTY RATIO. DRIVE THE LIQUID CRYSTAL
ST32  MEASURE THE CHROMATICITY
ST33  Y COORDINATE IS IN AN ALLOWABLE RANGE ?
ST34  X COORDINATE IS IN AN ALLOWABLE RANGE ?
ST35  VARY THE DUTY RATIO
20  ST36  WRITE THE DUTY RATIO
ST37  END

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FIG.6

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ELEMENT CHROMATICITY RANGE
25  Green LED DISTRIBUTION RANGE
Blue LED DISTRIBUTION RANGE
Red LED DISTRIBUTION RANGE

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RGB PWM VALUE FINE ADJUSTMENT DIRECTION
WHITE ALLOWABLE RANGE

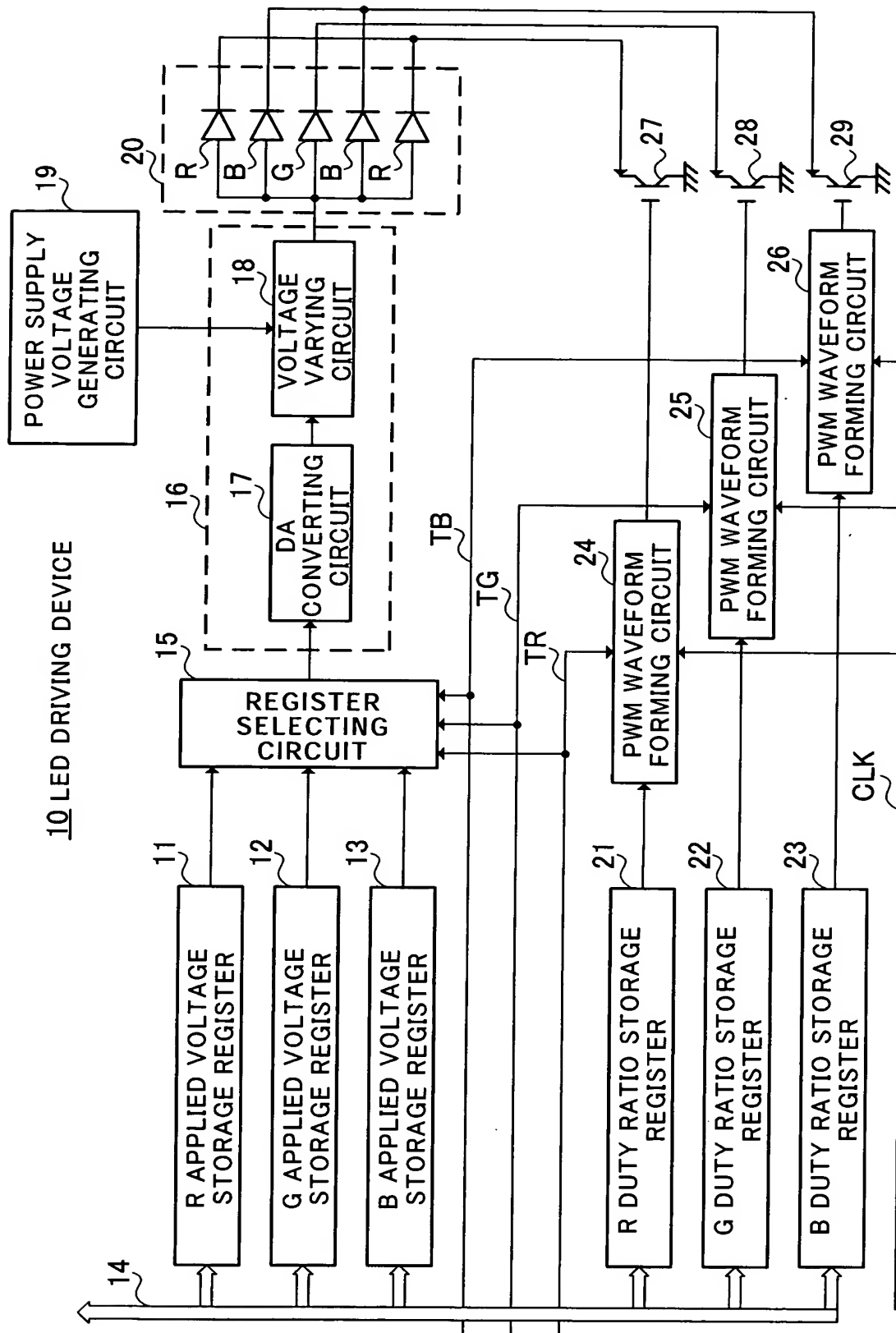


FIG.1

	MINIMUM VALUE	STANDARD VALUE	MAXIMUM VALUE
RED LED	1.75	2.2	2.45
GREEN LED	2.9	3.3	3.9
BLUE LED	2.9	3.4	3.9

UNIT V

FIG.2

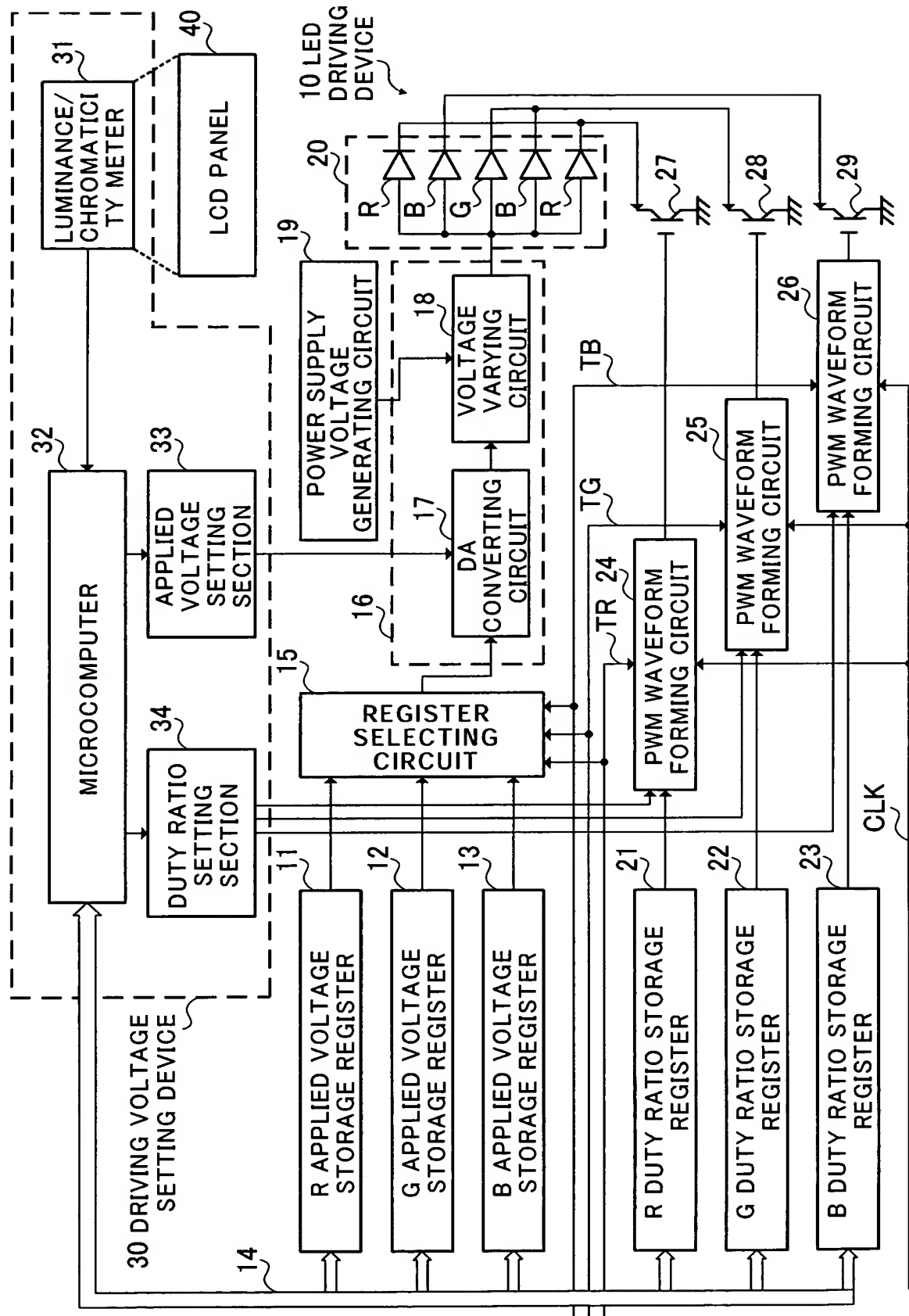


FIG.3

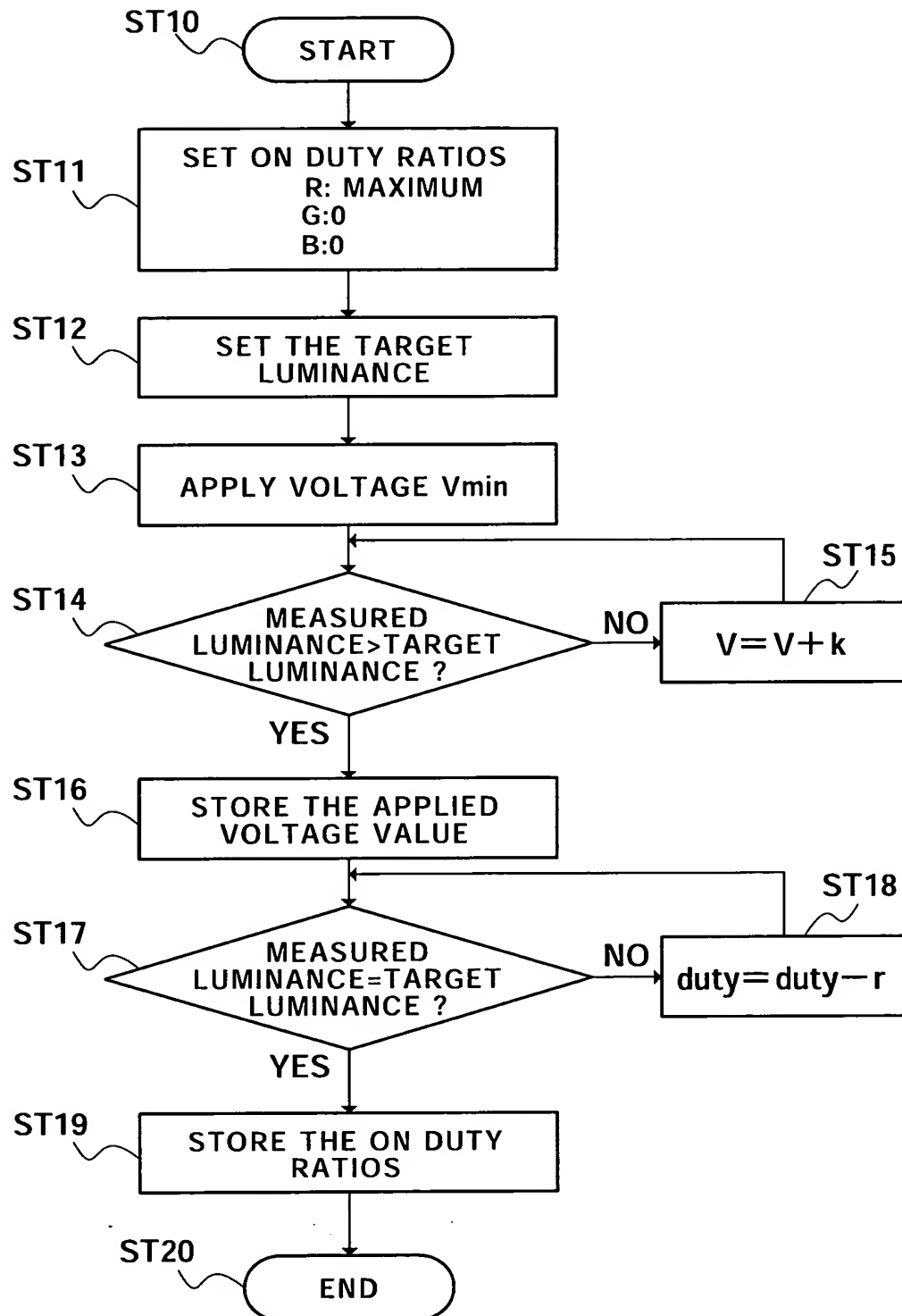


FIG.4

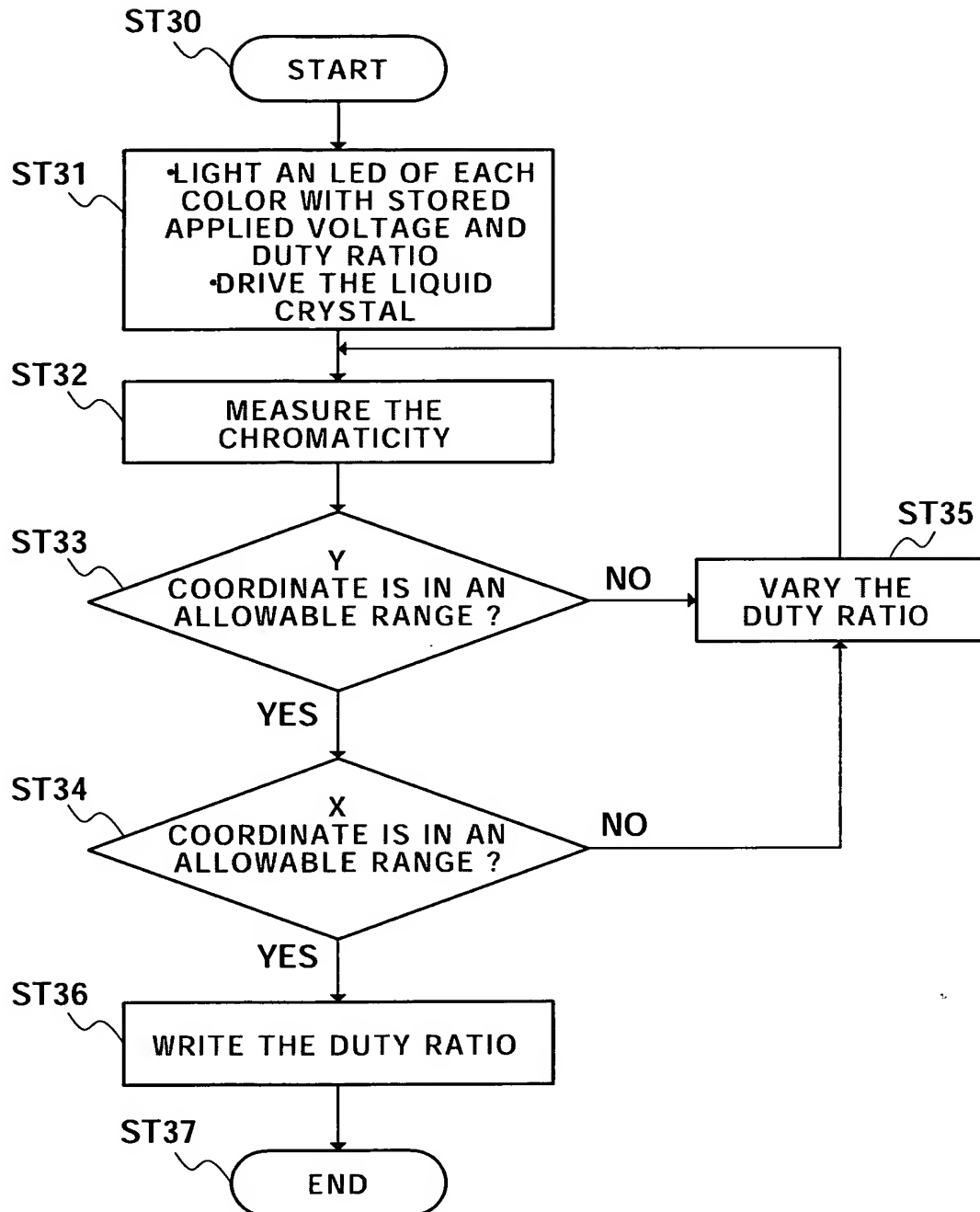


FIG.5

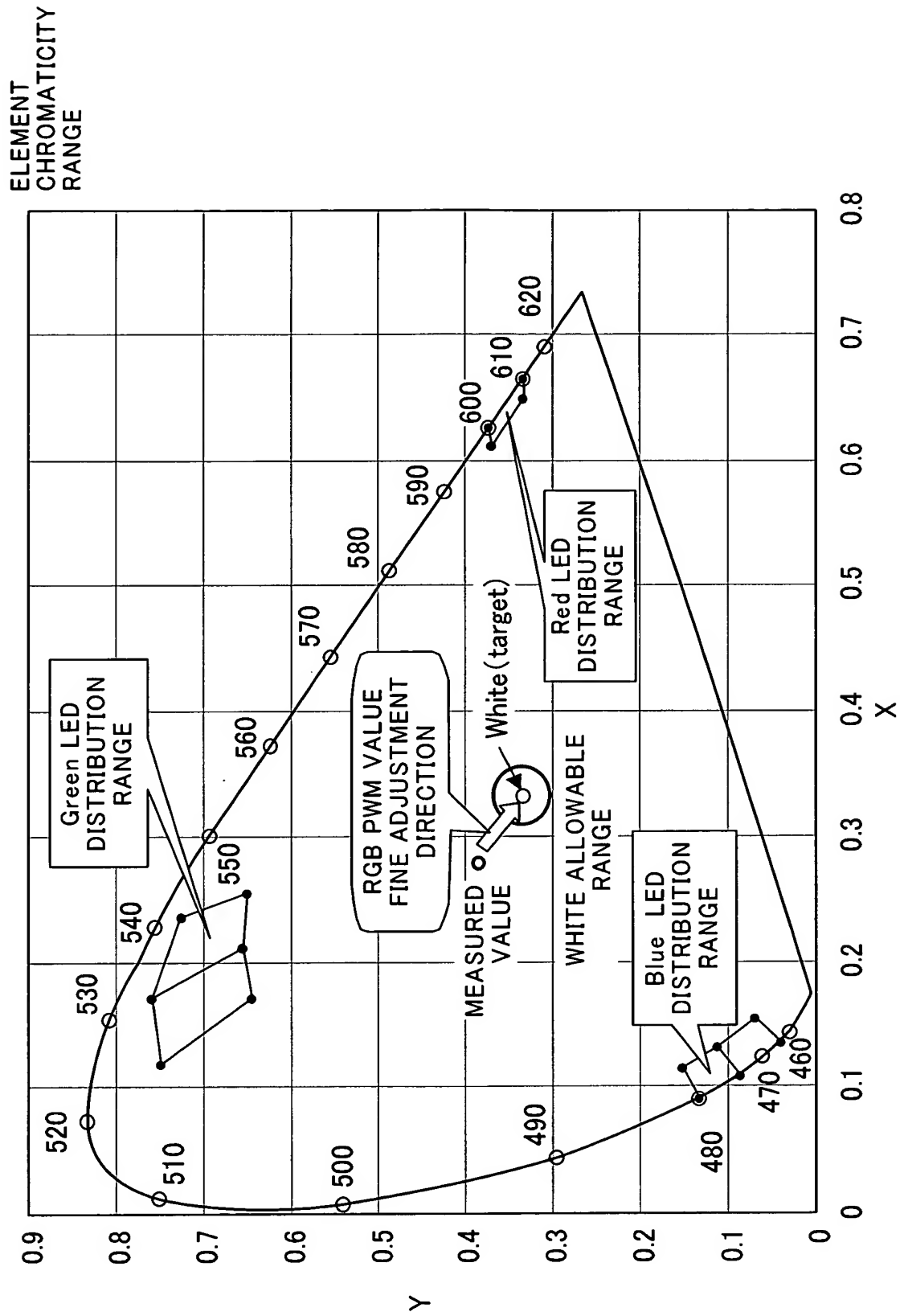


FIG.6

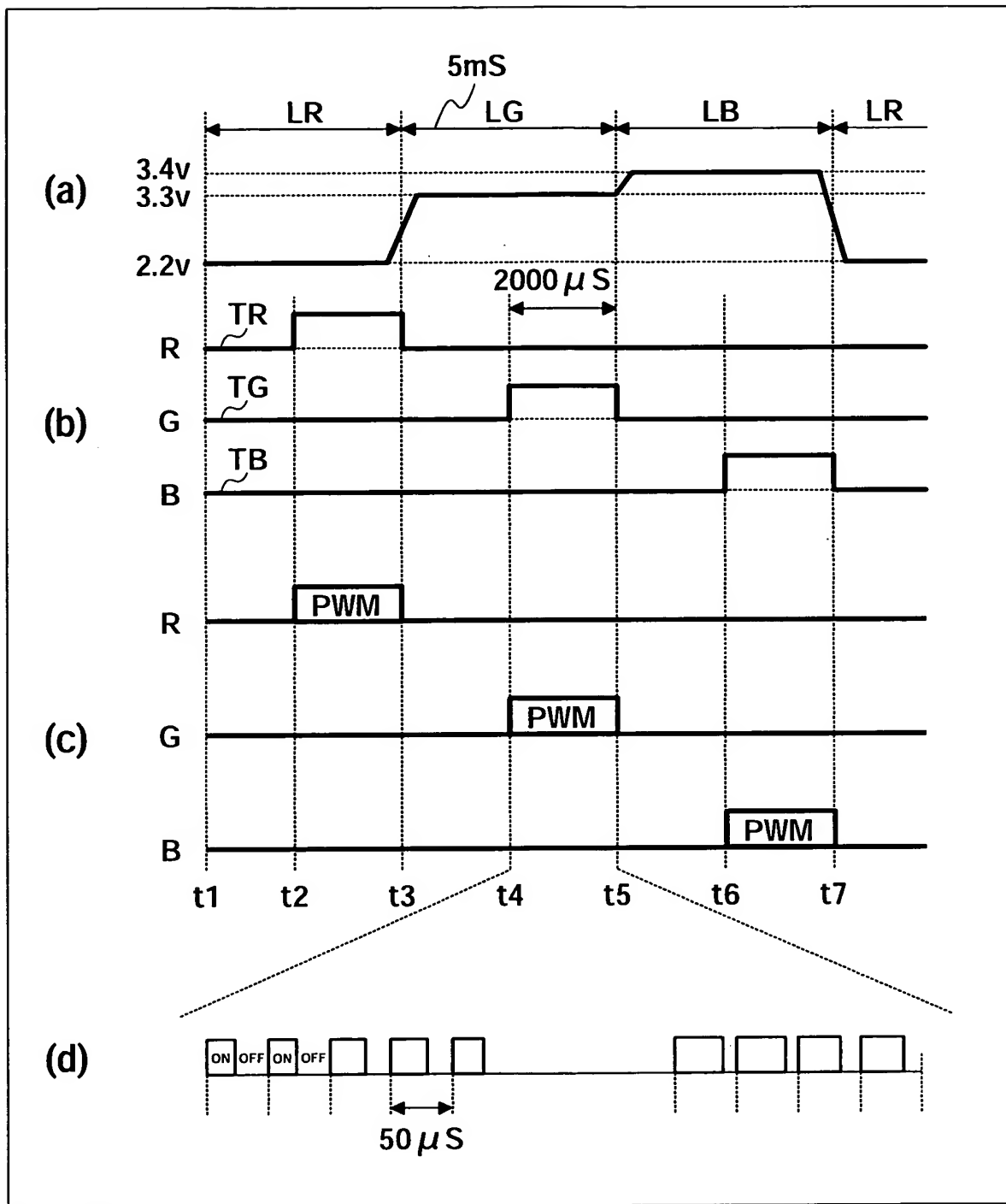


FIG.7

50 LED DRIVING DEVICE

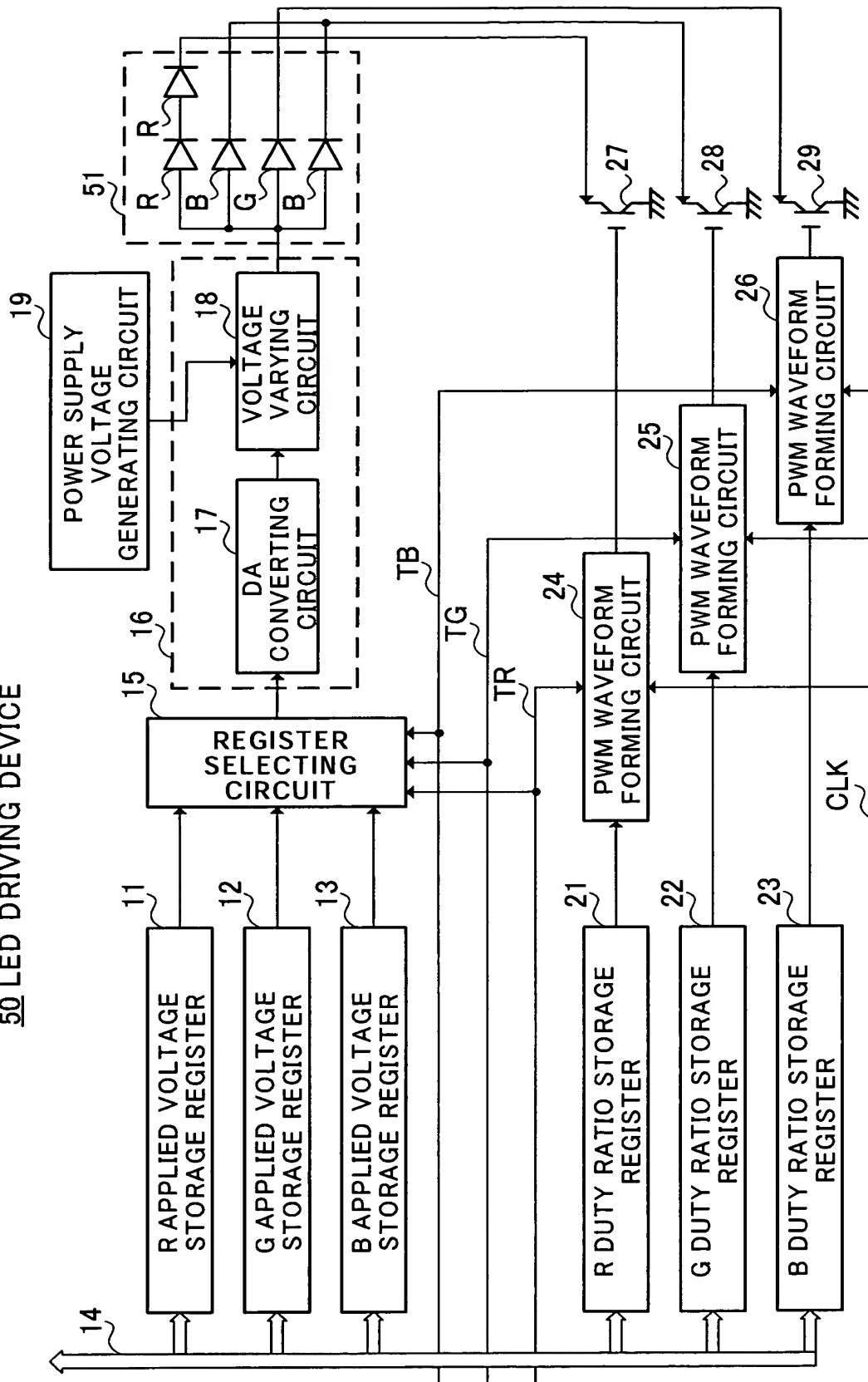


FIG. 8

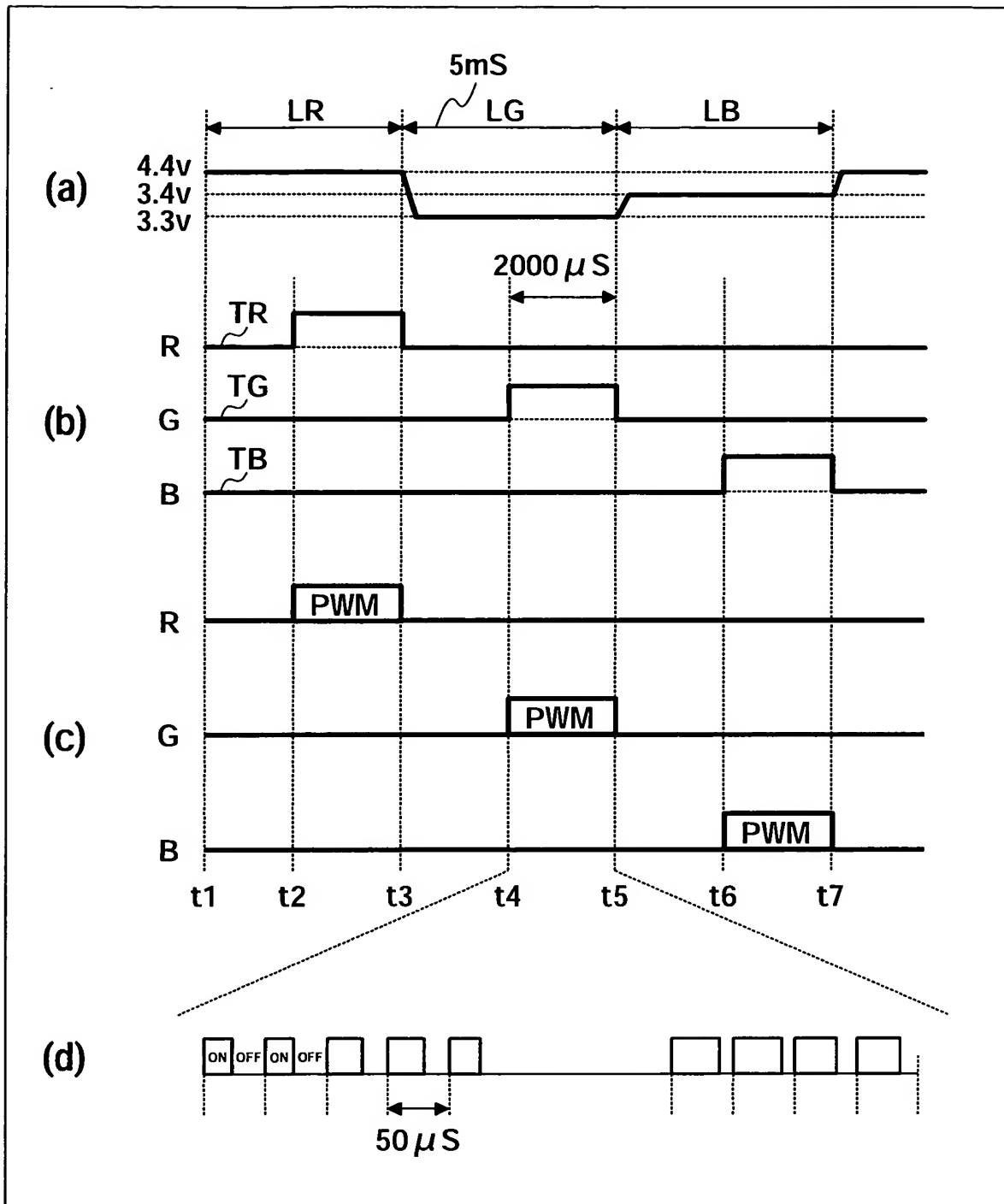


FIG.9